- 50 -

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A torque transmission mechanism comprising:

an outer body having an inner surface defining a

5 cavity therein;

an inner body having an outer surface, the inner body being located at least partially inside the cavity and able, in use, to rotate therein;

a plurality of rollers each located between the outer body and the inner body;

wherein there is provided one or more cam surfaces;

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wherein rotation of the inner body relative to the outer body in a first direction is substantially unimpeded by the rollers, but rotation of the inner body in the opposite second direction is prevented or impeded by interaction of at least two rollers with said one or more cam surfaces;

wherein one of the rollers which interact with
the one or more cam surfaces is a larger roller which is
of a larger diameter than at least one other smaller
roller which interacts with one of the one or more cam
surfaces;

wherein one of the outer body and the inner body
is formed with a recess therein, and the larger roller is
located in said recess; and

wherein the body in which the recess is formed has a shape which, excluding the effect of the recess, has a non-uniform wall thickness, and the part of the body in which the recess is formed includes a part with a greater wall thickness excluding the effect of the recess.

2. A tool including a head wherein the head includes or consists of a torque transmission mechanism as claimed

- 51 -

in claim 1.

the cavity;

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3. A tool including a one-way torque transmission mechanism in a head thereof, which in use imparts torque from a driving portion to a drive element thereof, wherein said tool includes an attachment portion for attachment of a drive element of another tool, so that the drive element of the other tool may be forced so as to impart torque to the drive element of said tool.

4. A torque transmission mechanism comprising: an outer body having a cavity therein; an inner body located at least partially within

a mechanism for controlling relative rotation of the inner body and outer body so that, in use, rotation of the inner body relative to the outer body in the first direction may be substantially unimpeded, but rotation of the inner body relative to the outer body in the opposite second direction is prevented or impeded;

wherein a cover is provided which extends between the inner body and the outer body, said cover being, in use, substantially fixed relative to the outer body; and

wherein one or more seals are provided between the inner body and the cover so as to isolate the mechanism for controlling relative rotation of the inner body and the outer body, from the exterior of the tool.

5. A torque transmission mechanism comprising:

an outer body having an inner surface defining a cavity therein;

an inner body having an outer surface, the inner body being located at least partially inside the cavity and able, in use, to rotate therein;

a plurality of rollers each located between the outer body and the inner body;

- 52 -

wherein there is provided one or more cam surfaces;

wherein rotation of the inner body relative to the outer body in a first direction is substantially unimpeded by the rollers, but rotation of the inner body in the opposite second direction is prevented or impeded by interaction of at least two rollers with said one or more cam surfaces;

wherein at least one of the rollers which

10 interact with the one or more cam surfaces is a larger
roller which is of a larger diameter than at least one
other smaller roller which interacts with one of the one
or more cam surfaces;

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wherein the interaction of the rollers with the cam surface(s) which corresponds to prevention or impeding of the rotation in the second direction corresponds to each of the rollers being forcibly engaged between the inner and outer bodies so as to transmit torque between said inner and outer bodies; and

wherein as the mechanism changes from a state in which the rollers are not forcibly engaged between the inner and outer bodies to a state in which the rollers are forcibly engaged between the inner and out bodies, the rollers do not all become forcibly engaged between the inner and outer bodies simultaneously.

6. A tool including a head, wherein the head includes or consists of a torque transmission mechanism comprising:

an outer body having an inner surface defining a 30 cavity therein;

an inner body having an outer surface, the inner body being located at least partially inside the cavity and able, in use, to rotate therein;

a plurality of rollers each located between the outer body and the inner body;

- 53 -

wherein rotation of the inner body relative to the outer body in a first direction is substantially unimpeded by the rollers, but rotation of the inner body in the opposite second direction is prevented or impeded by interaction of at least two rollers with the inner and outer bodies; and

wherein at least one of the rollers has a larger 10 diameter than at least one other roller.

7. A torque transmission mechanism comprising: an outer body having an inner surface defining a cavity therein;

an inner body having an outer surface, the inner body being located at least partially inside the cavity and able, in use, to rotate therein;

a plurality of rollers each located between the outer body and the inner body;

wherein rotation of the inner body relative to
the outer body in a first direction is substantially
unimpeded by the rollers, but rotation of the inner body
in the opposite second direction is prevented or impeded
by interaction of at least two rollers with the inner and
outer bodies; and

wherein at least one of the rollers is generally spherical.